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(54) Title: METHODS FOR STIMULATING TLR/IRF3 PATHWAYS FOR INDUCING ANTI-MICROBIAL, ANTI-INFLAM-MATORY AND ANTICANCER RESPONSES

(57) Abstract: The present invention provides methods for stimulating Toll-like receptors (TLR) to activate IRF (e.g., an IRF3) and signaling pathway, and thereby directing an antimicrobial activity. The present invention also provides methods for identifying agents that bind and/or stimulate TLR and mediate induction of an IRF3 pathway, thereby directing an antimicrobial activity. Additionally, the invention provides methods and agents for suppressing stimulation of TLR, thereby directing an anti-inflammatory response.